



FIG. 2. FLOWER OF *MALAXIS UNIFOLIA*, laid open,  $\times 10$ .

*unifolia*, when fully expanded, 1–10 cm. long and 1.3–2.5 cm. thick, with mature divergent pedicels 4–8 mm. long. In *M. unifolia* the larger flowers (FIG. 3 and TEXT-FIG. 2) have the oblong-oval lip shallowly cordate at base, with the 2 lateral apical lobes elongate, the central one a tiny tooth. The West Indian *M. Grisebachiana*, as shown by the illustrations (Fawcett & Rendle, Fl. Jam. i. t. 6, figs. 18–23) and by the West Indian specimens, has a short and thick raceme like that of *M. unifolia*, but an almost quadrate short-oblong lip only 1.75 mm. broad and with comparatively short basal lobes.

In its very slender raceme *Malaxis Bayardi* suggests the calcicolous boreal *M. brachypoda* (Gray) Fern. in RHODORA, xxviii. 176 (1926) and xxxv. 241, t. 253, figs. 1–4 (1933); but *M. brachypoda* has the leaf nearly basal, yellowish and larger flowers, narrower bracts, and drooping cordate lip with prolonged entire tip.

(To be continued)

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## NEW NAMES AND NEW COMBINATIONS FOR TEXAS PLANTS

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PRIOR to the publication of a check list of the plants of Texas by the Texas Agricultural Experiment Station to take place at an early date, it is found desirable to publish the new names and the new combinations that will be used in that list. In general these changes are needed to bring the nomenclature up to date and in harmony with the International Rules and conservative usage.

### NEW NAMES

*DESCURAINIA multifoliata*, nom. nov. *Sophia millefolia* Rydb. ex Britton, Man. ed. 2, 462. 1905. Not *D. millefolia* (Ait.) Webb. & Berth. 1836.

*CASSIA Fisheri*, nom. nov. *Chamaecrista rostrata* Woot. & Standl. Contr. U. S. Nat. Herb. 16: 135. 1913. Not *Cassia rostrata* Voigt, 1928. Named for its collector, my friend, Geo. L. Fisher.

ASTRAGALUS **Microphacos**, nom. nov. *Dalea parviflora* Pursh, Fl. Amer. Sept. 474. 1814. *A. parviflorus* MacMill., 1892, not *A. parviflorus* Lam., 1783. *A. gracilis* A. Gray, 1864, not *A. gracilis* Nutt., 1818. *Microphacos parviflorus* Rydb., 1913.

PSORALEA **Rydbergii**, nom. nov. *Pedimelum humile* Rydb., N. A. Fl., 24: 24. 1919. Not *P. humilis* Mill., Gard. Dict. ed. 8. *Psoralea* no. 7, 1768.

OXALIS **oreophila**, nom. nov. *Ionoxalis monticola* Small, N. A. Fl. 25: 42. 1907. Not *O. monticola* Arech., Anal. Mus. Nac. Montevideo, 3: 231. 1900. Fl. Uruguay, 1: 231. 1900.

MAMMILLARIA **Engelmannii**, nom. nov. *Echinocactus Muehlenpfordtii* Poselg., Allg. Gartenz. 21: 102. 1853. Not *M. Muehlenpfordtii* Foerst, ex Otto & Dietr., Allg. Gartenz. 15: 49. 1847. *M. Scheeri* Muehlenpf., var. *valida* Engelm., Proc. Amer. Acad. 3: 265. 1856. Not *M. valida* Webber, Dict. Hort. Bois. 806. 1898.

MAMMILLARIA **Escobaria**, nom. nov. *Escobaria Runyonii* Britton & Rose, Cactaceae 4: 55. 1923.

HEDEOMA **texana**, nom. nov. *Hedeoma ciliata* Benth. ex DC. Prod. 12: 245. Nov., 1848. Not *H. ciliata* Nutt., Journ. Acad. Phila. II. 1: 183. Aug., 1848. *Stachydeoma ciliata* Small.

#### NEW COMBINATIONS

BOUTELOUA HIRSUTA Lag., var. **pectinata** (Featherly), comb. nov. *B. pectinata* Featherly, Bot. Gaz., 91: 103. 1931.

CAMASSIA **scillioides** (Raf.), comb. nov. *Cyanotris scillioides* Raf., Am. Month. Mag. 3: 356. 1818. *Lamotris hyacinthina* Raf., 1836. *Quamassia hyacinthina* Britton.

JUNCUS TENUIS Willd., var. **platyphyllus** (Wiegand), comb. nov. *J. dichotomus* Ell., var. *platyphyllus* Wiegand, Bull. Torr. Bot. Club, 30: 448. 1903.

AGAVE **tigrina** (Engelm.), comb. nov. *A. virginica* L., var. *tigrina* Engelm., Trans. Acad. Sci. St. Louis, 3: 302. 1875.

SPIRANTHES **floridana** (Wherry), comb. nov. *Ibidium floridanum* Wherry, Jour. Wash. Acad. Sci. 21: 49, fig. 1. 1931.

SPIRANTHES **Reverchonii** (Small), comb. nov. *Gyrostachys Reverchonii* Small, Bull. Torr. Bot. Club, 25: 610. 1898.

QUERCUS **stellipila** (Sarg.) Parks,<sup>1</sup> comb. nov. *Q. texana* Buckl., var. *stellipila* Sarg., Bot. Gaz. 65: 424. 1918.

TIDESTROMIA LANUGINOSA (Nutt.) Standl., var. **carnosa** (Steyermark), comb. nov. *Cladothrix lanuginosa* Nutt., var. *carnosa* Steyermark, Ann. Mo. Bot. Gard. 19: 389. 1932.

MIRABILIS JALAPA L., var. **Lindheimeri** (Standl.), comb. nov. *M. Jalapa* L., subsp. *Lindheimeri* Standl., Contr. U. S. Nat. Herb. 12: 368. 1909.

<sup>1</sup> Mr. H. B. Parks, Chief, Division of Apiculture, Texas Agr. Expt. Station, who is completing his study of the oaks of Texas.

NYMPHAEA **lekophylla** (Small), comb. nov. *Castalia lekophylla* Small, Man. Southeastern Fl. 543. 1933.

DESCURAINIA **andrenarum** (Cockerell), comb. nov. *Sophia andrenarum* Cockerell, Bull. Torr. Bot. Club, **24**: 48. 1901.

RORIPPA OBTUSA (Nutt.) Britton, var. **sphaerocarpa** (A. Gray), comb. nov. *Nasturtium sphaerocarpum* A. Gray, Mem. Amer. Acad., **4**: 6. 1849.

STREPTANTHUS **validus** (Greene), comb. nov. *Disaccanthus validus* Greene, Leaflets **1**: 225. 1906.

ACACIA **densiflora** (Alexander), comb. nov. *Vachellia densiflora* Alexander ex Small, Man. Southeastern Fl. 665. 1933.

CASSIA **littoralis** (Pollard), comb. nov. *Chamaecrista littoralis* Pollard, Proc. Biol. Soc. Wash. **15**: 20. 1902.

PSORALEA **caudata** (Rydb.), comb. nov. *Pediomelum caudatum* Rydb., N. A. Fl. **24**: 19. 1919.

PSORALEA **psoralioides** (Walt.), comb. nov. *Trifolium psoralioides* Walt., Fl. Carol. 184. 1788. *Hedysarum pedunculatum* Mill., Gard. Dict., ed. 8. Hedysarum No. 17. 1768. *P. pedunculata* Vail, 1894, not *P. pedunculata* Poir., 1816.

DALEA **laxa** (Rydb.), comb. nov. *Parosela laxa* Rydb., N. A. Fl. **24**: 85. 1920.

DALEA **longipila** (B. L. Robinson ex Rydb.), comb. nov. *D. mollis* Benth., var. *longipila* B. L. Robinson ex Rydb. N. Am. Fl. **24**: 64. 1919 (in synom.). *Parosela longipila* Rydb., l. c. 1919.

DALEA **neomexicana** (A. Gray), comb. nov. *D. mollis* Benth. (?), var. *neomexicana* A. Gray, Pl. Wright. **1**: 47. 1852. *Parosela neomexicana* Heller, Cat. Pl. N. Am. ed. 2, 6. 1900.

TEPHROSIA **leucosericea** (Rydb.), comb. nov. *Cracca leucosericea* Rydb., N. A. Fl. **24**: 163. 1923.

TEPHROSIA **texana** (Rydb.), comb. nov. *Cracca texana* Rydb., N. A. Fl. **24**: 176. 1923.

SESBANIA **Drummondii** (Rydb.), comb. nov. *Daubentonia Drummondii* Rydb., Am. Journ. Bot., **10**: 498. 1923. *Daubentonia longifolia* of authors; in part of DC., as to description.

SESBANIA **exaltata** (Raf.), comb. nov. *Darwinia exaltata* Raf., Fl. Ludov. 106. 1817. *Sesban exaltatus* Rydb., 1924.

ASTRAGALUS **Emoryanus** (Rydb.), comb. nov. *Hamosa Emoryana* Rydb., Bull. Torr. Bot. Club, **54**: 327. 1927.

ASTRAGALUS **leptocarpoides** (M. E. Jones), comb. nov. *A. Nuttallianus* DC., var. *leptocarpoides* M. E. Jones, Contr. W. Bot. **8**: 22. 1898. *Hamosa leptocarpoides* Rydb., 1927.

ASTRAGALUS **macilentus** (Small), comb. nov. *Hamosa macilenta* Small, Fl. Se. U. S. 618, 1332. 1903.

ASTRAGALUS **Tracyi** (Rydb.), comb. nov. *Phaca Tracyi* Rydb., N. A. Fl. **24**: 351. 1929.

EUPHORBIA **Ingallsii** (Small), comb. nov. *Chamaesyce Ingallsii* Small, Fl. Se. U. S. 708, 1333. 1903.

EUPHORBIA **Stanfieldii** (Small), comb. nov. *Chamaesyce Stanfieldii* Small, Fl. Se. U. S. 712, 1333. 1903.

RHAMNUS PURSHIANA DC., var. **betulaefolia** (Greene), comb. nov. *R. betulaefolia* Greene, Pittonia 3: 16. 1929.

SIDA **sagittaeifolia** (A. Gray), comb. nov. *S. lepidota* A. Gray, var. *sagittaeifolia* A. Gray, Pl. Wright. 1: 18. 1852. *Disella sagittaeifolia* Greene, 1906.

MAMMILLARIA **Runyonii** (Britton & Rose), comb. nov. *Coryphantha Runyonii* Britton & Rose, Cactaceae 4: 26. 1923.

MAMMILLARIA **Sneedii** (Britton & Rose), comb. nov. *Escobaria Sneedii* Britton & Rose, Cactaceae 4: 56. 1923.

HEIMIA **longipes** (A. Gray), comb. nov. *Nesaea longipes* A. Gray, Pl. Wright. 1: 68. 1852.

VACCINIUM **Langloisii** (Greene), comb. nov. *Polycodium Langloisii* Greene, Leaf. Bot. Obs. & Crit. 2: 226. 1912.

SALVIASTRUM TEXANUM Scheele, var. **canescens** (A. Gray), comb. nov. *Salvia texana* (Scheele) Torr., var. *canescens* A. Gray, Proc. Am. Acad. 8: 368. 1872.

MONARDA PUNCTATA L., var. **Stanfieldii** (Small), comb. nov. *M. Standfieldii* Small, Fl. Se. U. S., 1038. 1903.

AGASTACHE **pallida** (Lindl.), comb. nov. *Cedronella pallida* Lindl., Bot. Reg. t. 29. 1846.

PENSTEMON TRIFLORUS Heller, var. **integrifolius** (Pennell), comb. nov. *P. triflorus* Heller, subsp. *integrifolius* Pennell, Acad. Nat. Sci. Phil. Mon. 1: 252. 1935.

PENSTEMON GUADALUPENSIS Heller, var. **Ernesti** (Pennell), comb. nov. *P. guadalupensis* Heller, subsp. *Ernesti* Pennell, Acad. Nat. Sci. Phil. Mon. 1: 251, 252. 1935.

GERARDIA FLAVA L., var. **reticulata** (Raf.), comb. nov. *Aureolaria reticulata* Raf., New Fl. Amer. 2: 59. 1837. *Dasystema bignoniiflora* Small, 1899.

GERARDIA GRANDIFLORA Benth., var. **cinerea** (Pennell), comb. nov. *Aureolaria grandiflora* (Benth.) Pennell, subsp. *cinerea* Pennell, Proc. Acad. Nat. Sci. Phila., 73: 510. 1922.

ELYTRARIA **acuminata** (Small), comb. nov. *Tubiflora acuminata* Small, Fl. Se. U. S. 1082, 1338. 1903.

LIATRIS **Langloisii** (Greene), comb. nov. *Laciniaria Langloisii* Greene, Pittonia 5: 58. 1902.

APLOPAPPUS **annuus** (Rydb.), comb. nov. *Sideranthus annuus* Rydb., Bull. Torr. Bot. Club, 25: 472. 1898.

APLOPAPPUS **validus** (Rydb.), comb. nov. *Isopappus validus* Rydb., Brittonia 1: 100. 1931.

ASTER **linearis** (Greene), comb. nov. *Machaeranthera linearis* Greene, Bull. Torr. Bot. Club, 24: 511. 1897.

IVA **pedicellata** (Rydb.), comb. nov. *Cyclachaena pedicellata* Rydb., N. A. Fl. 33: 10. 1922.

EVAX **nivea** (Small), comb. nov. *Filago nivea* Small, Bull. Torr. Bot. Club, 24: 333. 1897.

POLYPTERIS **macrolepis** (Rydb.), comb. nov. *Othake macrolepis* Rydb., Bull. Torr. Bot. Club, **37**: 332. 1910.

POLYPTERIS **robusta** (Rydb.), comb. nov. *Othake robustum* Rydb., N. A. Fl. **34**: 60. 1914.

ACTINEA RICHARDSONI (Hook.) Kuntze, var. **floribunda** (A. Gray), comb. nov. *Actinella Richardsoni* Hook., var. *floribunda* A. Gray, Mem. Amer. Acad. n. ser. **4**: 101. 1849.

ACTINEA **texana** (Coulter & Rose), comb. nov. *Actinella texana* Coulter & Rose, Bot. Gaz. 16: 27. 1891.

DYSSODIA **gracilis** (Rydb.), comb. nov. *Thymophylla gracilis* Rydb., N. A. Fl. **34**: 176. 1915.

CIRSIUM **Helleri** (Small), comb. nov. *Carduus Helleri* Small, Fl. Se. U. S. 1307, 1341. 1903.

STEPHANOMERIA **neomexicana** (Greene), comb. nov. *Ptiloria neomexicana* Greene, Bull. Torr. Bot. Club, **25**: 123. 1898.

TEXAS AGRICULTURAL EXPERIMENT STATION,  
Sonora, Texas.

EPIGAEA REPENS, forma PLENA in Connecticut.—Rarely, nature challenges the horticulturist by producing a double form of a wild flower. Such a form of the mayflower has been known at least since 1872 and has been named *Epigaea repens*, f. *plena* Rehder. It has been found at two stations each in Massachusetts and Maine, but seems not to have been reported from Connecticut.

It is therefore of interest to record its occurrence in that state. It was found in 1928 in the township of Madison by Esther Byington-Lindquist. The colony has been under observation regularly since and has consistently produced exquisite double blooms each year. Like constancy was noted in the plants found in 1872 in Massachusetts. The flowers have twelve or more small petals growing like dainty rosettes; they are not as large as many of the single blooms.—E. H. BYINGTON, Guilford, Connecticut.

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